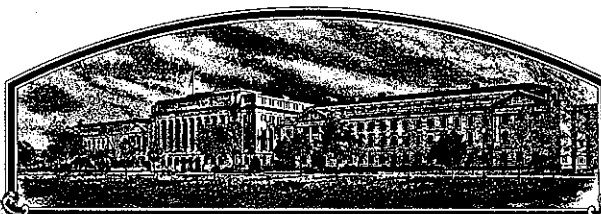


No.

8500217



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Western Plant Breeders, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

DURUM WHEAT

'WestBred Turbo'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 31st day of May in the year of our Lord one thousand nine hundred and eighty-eight.

Attest:

Kenneth H. Ears
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Paul E. Lutz
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

APPROVAL EXPIRES 4-30-85

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426)

1. NAME OF APPLICANT(S) WESTERN PLANT BREEDERS, INC. (a Maryland Corporation) W.P.B. ACCOUNTS, INC. Western Plant Breeders, Inc.		2. TEMPORARY DESIGNATION P882-21	3. VARIETY NAME WestBred Turbo
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 1918 W. Van Buren P.O. Box 1110 Phoenix, Arizona 85001		5. PHONE (Include area code) (602) 257-1223	FOR OFFICIAL USE ONLY PVPO NUMBER 8500217
6. GENUS AND SPECIES NAME Triticum durum	7. FAMILY NAME (Botanical) Gramineae		FILING DATE 9/27/85 TIME 10:00 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. KIND NAME Durum Wheat	9. DATE OF DETERMINATION September 9, 1984		FEES RECEIVED AMOUNT FOR FILING \$ 1,800 DATE 9/27/85 AMOUNT FOR CERTIFICATE \$ 200. ⁰⁰ DATE 4-22-88
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation			11. IF INCORPORATED, GIVE STATE OF INCORPORATION Arizona
12. DATE OF INCORPORATION December 1, 1977			13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

MR. Kim C. Shantz
P.O. Box 1110 WESTERN PLANT BREEDERS
Phoenix, Arizona 85001 227 SOUTH SMITH ROAD, SUITE 104 967-0028
TEMPE, AZ 85281 (602) 257-1223

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A. Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)

b. ☒ Exhibit B. Novelty Statement.

c. ☒ Exhibit C. Objective Description of Variety (Request form from Plant Variety Protection Office.)

d. ☐ Exhibit D. Additional Description of Variety.

e. ☒ Exhibit E. Statement of the Basis of Applicant's Ownership.

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) ☒ Yes (If "Yes," answer items 16 and 17 below) ☐ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ Yes ☒ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? ☐ Foundation ☐ Registered ☐ Certified

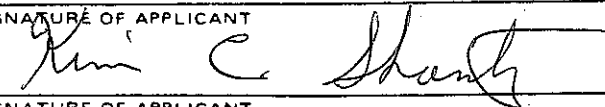
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? ☐ Yes (If "Yes," give date) ☒ No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? ☐ Yes (If "Yes," give names of countries and dates) ☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

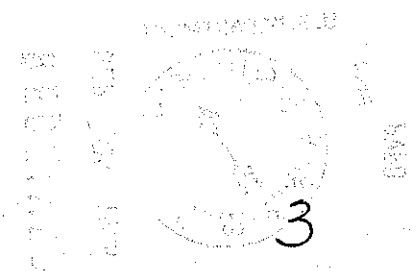
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT 	DATE Sept. 24, 1985
SIGNATURE OF APPLICANT	DATE

14. A. WestBred Turbo is a spring durum wheat selected from a three-way composite cross that was bulked in the F_4 generation as an F_3 derived line. The three-way composite cross was originated in 1978 by crossing Mexicali, WestBred 1000D, Calvin, Jori-69, CA00306, and CA00303 with the following CIMMYT and Italian lines: Gerardo V2512, Capiete, Quilafin, Majhrebi-2, Brant-3, Amal-72, Gerardo 512, Georgio 451, Georgio 533 and Georgio 631. In 1979, individual heads were selected for earliness from the resulting F_2 plants and were hand emasculated. The following lines were used as pollen sources for these hand emasculations: Bittern, Mexicali, Cando, Calvin, WDE-8-7-2, WDE-8-14-13, WDE-8-2-9, WDE-8-2-10, WDE-8-17-5, WDE-8-10-4, WDE-8-12-8, WDE-8-16-9, WDE-8-5-7, Gerardo 512, Gerardo 572, and Gerardo 532. The bulked F_1 was grown in Conrad, Montana in the summer of 1979. From the F_2 grown in Phoenix, Arizona in 1980, selected heads were bulked and the resulting F_3 was grown in Phoenix, Arizona in the winter of 1981. Plant selections made from this bulk were planted as F_4 plots at Phoenix, Arizona in 1982. One plot designated as P882-21 was harvested in bulk and yield tested in the Desert Durum area in 1983, 1984 and 1985. One hundred heads were pulled in Phoenix, Arizona in 1984 and were planted as head rows in Bozeman, Montana in the summer of 1984. Each row was harvested separately and then seeded separately in Phoenix, Arizona in 1985. Thirty-five non-segregating, slightly earlier plots were bulked together and were used to seed 30 acres of Foundation seed production at Bozeman, Montana in 1985. No identifiable variants have been found during the multiplication process. WestBred Turbo is a stable and uniform cultivar in agronomic appearance and performance across several generations and growing conditions. Agronomic data to support stability is presented in the tables.

14. B. WestBred Turbo is a day length insensitive, spring durum wheat with an average height of 37 inches which is 5 inches taller than Aldura and 10 inches taller than Mexicali. The awns are black and fade rapidly to white at maturity while the awns of WestBred 1000D do not fade at maturity. WestBred Turbo consistently sets more kernels/spikelet than both Mexicali and Aldura. WestBred Turbo most resembles WestBred 1000D and ^{'YAVAROS 79'} ~~Yavaros~~. WestBred Turbo is 2 inches taller, has consistently higher test weight, has higher hard amber vitreous counts and has much brighter semolina color than WestBred 1000D. WestBred Turbo differs from ^{'YAVAROS 79'} ~~Yavaros~~ in that it is much better in lodging resistance, is 2 inches taller, is 1 to 8 days later to flowering depending on date of seeding, has higher hard amber vitreous counts, has much brighter semolina color and has higher sedimentation values. The above comparisons along with the objective description (13C) show WestBred Turbo to be a novel variety of spring durum wheat.

14. E. The applicant for plant variety protection of WestBred Turbo is the employer of the breeder, Kim C. Shantz.



U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
BELTSVILLE, MARYLAND 20785

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Western Plant Breeders, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P.O. Box 1110
Phoenix, Arizona 85001

FOR OFFICIAL USE ONLY

PVPO NUMBER

8500217

VARIETY NAME OR TEMPORARY DESIGNATION

WestBred Turbo

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., 0 8 9 or 0 9) when number is either 99 or less or 9 or less.

1. KIND:

2 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

1 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 2 1 = SOFT 3 = OTHER (Specify)
2 = HARD

3 1 = WHITE 2 = RED 3 = OTHER (Specify) Amber

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

1 2 0 FIRST FLOWERING 1 3 0 LAST FLOWERING

4. MATURITY (50% Flowering):

0 6 NO. OF DAYS EARLIER THAN 6 1 = ARTHUR 2 = SCOUT 3 = CHRIS
1 3 NO. OF DAYS LATER THAN 7 4 = LEMHI 5 = NUGAINE 6 = LEEDS
7. Mexicali

5. PLANT HEIGHT (From soil level to top of head):

9 4 CM. HIGH
CM. TALLER THAN None
3 0 CM. SHORTER THAN 6 1 = ARTHUR 2 = SCOUT 3 = CHRIS
4 = LEMHI 5 = NUGAINE 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1 1 = YELLOW 2 = PURPLE

8. STEM:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT 2 Waxy bloom: 1 = ABSENT 2 = PRESENT
1 Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT 1 Internodes: 1 = HOLLOW 2 = SOLID
0 5 NO. OF NODES (Originating from node above ground) 2 3 CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

1 Anthocyanin: 1 = ABSENT 2 = PRESENT 1 Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

1 Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 2 Flag leaf: 1 = NOT TWISTED 2 = TWISTED
3 = OTHER (Specify): 2 Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
1 Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT
2 2 MM. LEAF WIDTH (First leaf below flag leaf) 3 0 CM. LEAF LENGTH (First leaf below flag leaf):

11. HEAD:

 Density: 1 = LAX 2 = DENSE

 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE
4 = OTHER (Specify) _____

 Awedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED
5 = BROWN 6 = BLACK 7 = OTHER (Specify) _____

 CM. LENGTH

 MM. WIDTH

12. GLUMES AT MATURITY:

 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.)
3 = LONG (CA. 9 mm.)

 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)
3 = WIDE (CA. 4 mm.)

 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED
4 = SQUARE 5 = ELEVATED 6 = APICULATE

 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

 Cheek: 1 = ROUNDED 2 = ANGULAR

 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

 Brush: 1 = NOT COLLARED 2 = COLLARED

 Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN
4 = BROWN 5 = BLACK

 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

 MM. LENGTH

 MM. WIDTH

 GM. PER 1000 SEEDS

17. SEED CREASE:

 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'
2 = 80% OR LESS OF KERNEL 'CHRIS'
3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'
2 = 35% OR LESS OF KERNEL 'CHRIS'
3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

 STEM RUST
(Races) _____

 LEAF RUST
(Races) _____

 STRIPE RUST
(Races) _____

 LOOSE SMUT

 POWDERY MILDEW

 BUNT

 OTHER (Specify) _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

 SAWFLY

 APHID (Bydv.)

 GREEN BUG

 CEREAL LEAF BEETLE

 OTHER (Specify) _____

HESSIAN FLY

 GP

 A

 B

 C

RACES:

 D

 E

 F

 G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	WestBred 1000 D	Seed size	Mexicali
Leaf size	WestBred 1000 D	Seed shape	Mexicali
Leaf color	WestBred 1000 D	Coleoptile elongation	WestBred 1000 D
Leaf carriage	WestBred 1000 D	Seedling pigmentation	WestBred 1000 D

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

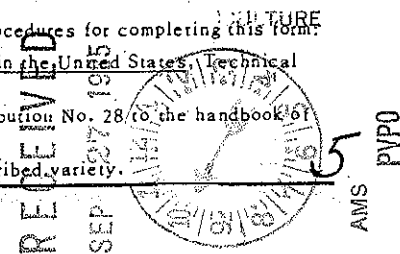


TABLE I

Yield in lbs/acre of WestBred Turbo and presently grown varieties
in Western Plant Breeders' trials in California and Arizona.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79</u> <u>Yavaros</u>
Phoenix, AZ	1983	9050	7550	7400	7250
	1984	9450	8000	7413	8288
	1985	9500	7467	7700	8733
Yuma, AZ	1983	7755	7370	6050	6160
	1984	7425	6490	7728	7178
Casa Grande, AZ	1985	6160	5885	5651	5706
El Centro, CA	1983	8965	7315	7095	8085
	1984	7714	7425	7728	7824
	1985	7601	6615	7560	7358
Corcoran, CA	1985	<u>8477</u>	<u>7627</u>	<u>7876</u>	<u>7627</u>
Average		8210	7174	7220	7421

3/21/85

TABLE II

Plant height in inches of WestBred Turbo and presently grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>WestBred 1000D</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79</u> <u>Yavarous</u>
Phoenix, AZ	1983	38	38	36	37	38
	1984	37	34	29	35	33
	1985	38	37	34	36	38
Yuma, AZ	1983	36	32	31	34	33
	1984	35	31	30	36	32
Casa Grande, AZ	1985	35	32	29	37	34
El Centro, CA	1983	40	37	29	34	33
	1984	35	32	29	31	35
	1985	38	34	36	36	35
Corcoran, CA	1985	<u>39</u>	<u>38</u>	<u>34</u>	<u>39</u>	<u>39</u>
Average		37	35	32	36	35

3/2/88
JL

TABLE III

Heading date of WestBred Turbo an presently grown
varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79 Yavarous</u>
Phoenix, AZ	1983	4-2	3-22	3-18	3-24
	1984	3-25	3-18	3-13	3-19
	1985	4-2	3-22	3-19	3-24
Casa Grande, AZ	1985	4-15	4-14	4-9	4-14

3/2/88
85

TABLE IV

Test weight in lbs/bu of WestBred Turbo and presently
grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>WestBred 1000D</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS '79 Yavarous</u>
Phoenix, AZ	1983	62.1	61.3	64.8	63.1	66.2
	1984	64.4	61.6	64.8	63.6	65.9
	1985	64.2	61.1	63.4	61.9	65.6
Yuma, AZ	1983	66.4	61.7	65.9	65.6	67.0
	1984	62.9	62.8	63.5	63.6	65.3
Casa Grande, AZ	1985	63.2	--	63.3	62.8	65.3
El Centro, CA	1983	66.3	63.6	65.6	64.3	67.6
	1984	63.0	58.9	63.0	62.3	64.7
	1985	63.4	--	62.8	62.6	65.5
Corcoran, CA	1985	<u>62.9</u>	<u>58.9</u>	<u>62.0</u>	<u>62.7</u>	<u>64.1</u>
Average		63.9		63.9	63.3	65.7

3/2/88

TABLE V

Percent protein of WestBred Turbo and presently grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79 Yavaros</u>
Phoenix, AZ	1983	10.4	11.5	11.5	9.4
	1984	11.1	12.9	11.8	11.2
	1985	13.6	14.6	13.9	12.9
Yuma, AZ	1983	11.9	12.6	12.0	12.3
	1984	11.6	12.6	12.0	11.6
Casa Grande, AZ	1985	12.8	13.1	13.4	12.8
El Centro, CA	1983	12.2	13.3	13.2	12.3
	1984	11.5	12.4	12.0	11.3
	1985	14.1	14.9	14.4	14.2
Corcoran, CA	1985	<u>14.9</u>	<u>14.7</u>	<u>14.2</u>	<u>14.1</u>
Average		12.4	13.3	12.8	12.2

3/21/88

TABLE VI

Hard amber vitreous counts of WestBred Turbo and presently grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>WestBred 1000D</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79 Yavarous</u>
Phoenix, AZ	1983	62	28	78	51	34
	1984	67	22	85	43	58
Yuma, AZ	1983	85	52	88	75	86
	1984	93	88	88	62	77
Casa Grande, AZ	1985	87	--	86	86	80
El Centro, CA	1984	88	81	90	64	60
Average		80		86	64	66

EC
7/24/88

TABLE VII

Percent lodging of WestBred Turbo and presently grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79</u> <u>Yavarous</u>
Phoenix, AZ	1983	0	5	70	15
	1985	0	0	40	0
Casa Grande, AZ	1985	0	0	30	0
El Centro, CA	1983	30	40	90	80
	1984	10	15	30	75
Corcoran, CA	1985	30	0	20	30

5876
3/2/88

TABLE VIII*

Incidence of Black Point in WestBred Turbo and presently
grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79</u> <u>Yavarous</u>
Phoenix, AZ	1983	.5	3.0	3.0	1.5
	1984	2.0	3.0	3.0	2.0
Yuma, AZ	1983	1.0	1.0	2.0	1.3
	1984	1.5	3.5	2.0	3.0
El Centro, CA	1983	1.7	3.5	2.3	3.0
	1984	1.0	4.0	2.0	1.0

*Subjective visual rating with 0 = None and
5 = Severe.

TABLE IX*

Semolina color of WestBred Turbo and presently
grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>WestBred 1000D</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVARDS '79</u> <u>Yavarous</u>
Phoenix, AZ	1984	1.0	4.0	1.0	3.0	4.0
	1985	1.0	3.0	1.0	2.0	2.5
Casa Grande, AZ	1985	1.0	3.0	1.0	2.0	3.0
El Centro, CA	1984	1.0	4.0	1.0	3.0	3.0
	1985	1.0	3.0	1.0	2.0	3.0
Corcoran, CA	1985	1.0	3.0	1.0	2.0	3.0

* Subjective visual rating with 1 = bright yellow color and
5 = dull, faint yellow color.

TABLE X

Sedimentation values in millimeters of WestBred Turbo and presently grown varieties in Western Plant Breeders' trials.

<u>Location</u>	<u>Year</u>	<u>WestBred Turbo</u>	<u>Aldura</u>	<u>Mexicali</u>	<u>YAVAROS 79</u> <u>Yavaros</u>
Phoenix, AZ	1984	24.0	18.0	21.0	19.0
	1985	30.0	22.0	26.0	25.0
Casa Grande, AZ	1985	26.5	23.0	25.0	23.5
El Centro, CA	1984	20.0	17.0	22.0	21.0
	1985	29.0	23.0	25.0	26.0
Corcoran, CA	1985	34.0	24.0	28.0	26.0
Average		27.3	21.2	24.5	23.4

27
12/24/88

TABLE XI

t-Test comparison of \bar{x} number of kernels/spikelet of
WestBred Turbo and Aldura at Bozeman, Montana.

$$\bar{x} \text{ WestBred Turbo} = 3.9$$

$$\bar{x} \text{ Aldura} = 3.44$$

$$\bar{x} \text{ Mexicali 75} = 3.11$$

$$t \text{ with } 38 \text{ df} = \frac{.46}{.07912} = 5.89***$$

***Significant at .001 level

WestBred Turbo*	Aldura*	Mexicali*
4.0	3.6	3.0
3.7	3.0	3.1
3.6	3.4	3.2
3.9	3.7	2.9
4.1	3.5	3.0
4.0	3.4	3.2
3.9	3.3	3.3
3.8	3.4	3.2
4.0	3.5	3.1
4.0	3.6	3.1

*Average number of kernels/spikelet on one head

STATE OF ARIZONA)
) ss.
 County of Maricopa)

ASSIGNMENT

WHEREAS, WESTERN PLANT BREEDERS, INC., an Arizona corporation (a/k/a WESTERN PLANT BREEDERS), having its principal place of business at Phoenix, Arizona, has applied for a Certificate of Protection which is pending in the Plant Variety Protection Office of the Secretary of Agriculture with respect to the following plant variety:

WestBred Turbo

Durum Wheat

WHEREAS, WPB ACQUISITION INC., a Maryland corporation, having its principal place of business in Hayward, California, is desirous of acquiring said plant variety and the application for said Plant Variety Protection Certificate;

WHEREAS, WESTERN PLANT BREEDERS, INC. states that it has title to the above Certificate and that this transfer does not violate any applicable ruling or order of any court or agency of competent jurisdiction.

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, WESTERN PLANT BREEDERS, INC. does hereby assign and set over to WPB ACQUISITION INC., all of the right, title and interest of WESTERN PLANT BREEDERS, INC., in and to the variety of durum wheat named:

"WestBred Turbo"

together with all goodwill associated with that variety and that name, and together with all rights under and to that application for a Certificate of Plant Variety Protection, dated September 24, 1985, currently pending in the Office of the Secretary of Agriculture of the United States of America.

WESTERN PLANT BREEDERS, INC.

By 
 Albert E. Carleton, President

On this 30th day of September, 1985, before me, appeared Albert E. Carleton, to me personally known, who, being by me duly sworn, did say that he is the President of WESTERN PLANT BREEDERS, INC., an Arizona corporation, and that the foregoing Assignment is on behalf of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at my office in Phoenix, Arizona the day and year last above written.

James M. Bolton aka James M. Smith
Notary Public

My commission expires:

November 3, 1986

53 WALL STREET
NEW YORK 10005
(212) 483-1000
CABLE: "NUMLATUS"
TELEX: ITT 421295
WU 128103

CITICORP CENTER
153 EAST 53 STREET
NEW YORK 10022
(212) 483-1000
TELEX: 126698

21 AVENUE GEORGE V
75008 PARIS
723-55-48
"NUMLATUS PARIS"
TELEX: 842-650286

SHEARMAN & STERLING

FOUR EMBARCADERO CENTER

SAN FRANCISCO 94111

(415) 981-5500

CABLE: "NUMLATUS, S. F." TELEX: ITT 470594

8500217

ST. HELEN'S, 1 UNDERSHAFT
LONDON EC3A 8HX
01-263-9100
"NUMLATUS LONDON EC3"
TELEX: 851-884274

CITICORP CENTRE
18 WHITFIELD ROAD
HONG KONG
5-8371222
TELEX: 63314 "NUMLA HX"

POST OFFICE BOX 2948
ABU DHABI
UNITED ARAB EMIRATES
324477
CABLE: "NUMLATU"
TELEX: 949-22662EM

December 5, 1985

Dr. Kenneth H. Evans
Commissioner
Plant Variety Protection Office
United States Department of Agriculture
National Agricultural Library Building
Beltsville, Maryland 20705

Re: PVP Assignments

Dear Dr. Evans:

This letter is in response to your letter to Peter Lyons of November 8, 1985 (a copy of which is enclosed for your convenience). The name and address of the new owner of certain PVP Applications and Certificates assigned by Western Plant Breeders, Inc. (an Arizona corporation) to WPB Acquisition Inc. a (Maryland corporation) are as follows:

Western Plant Breeders, Inc. (a Maryland corporation)
(formerly WPB Acquisition Inc.)
1918 West Van Buren
P. O. Box 1110
Phoenix, AZ 85001

Attention: Mr. Robert Huntington

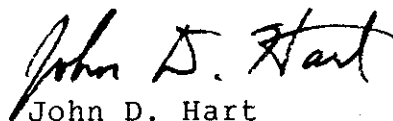
The applicant representatives to be contacted during the processing of the applications remain the same as named in each application at the time of filing.

For your information, the following events have occurred: Western Plant Breeders, Inc. (an Arizona corporation) assigned certain PVP Applications and

Certificates to WPB Acquisition Inc. (a Maryland corporation) on September 30, 1985. Subsequently, WPB Acquisition Inc. changed its name to Western Plant Breeders, Inc. (a Maryland corporation). For publication purposes, the registered owner of the assigned Applications and Certificates is Western Plant Breeders, Inc. (a Maryland corporation), even though the applications and certificates are in the name of "WPB Acquisition Inc."

Please let me know if you require any additional information.

Very truly yours,


John D. Hart

JDH/gmf/2495j

Enclosure

cc: Mr. Robert Huntington
Peter D. Lyons, Esq.